1/16

Figure 1

Figure 2

3/16

Figure 3

Figure 4a

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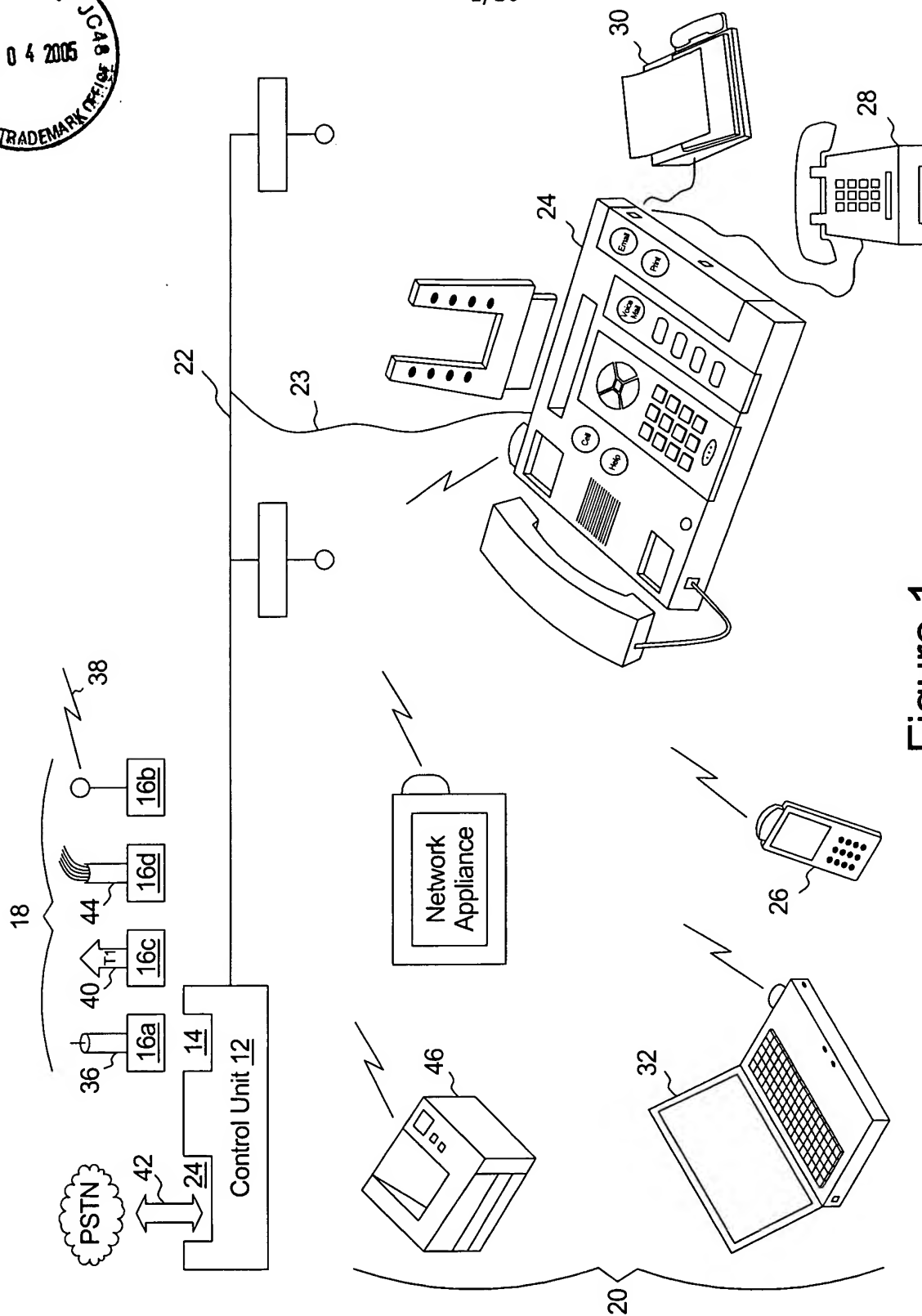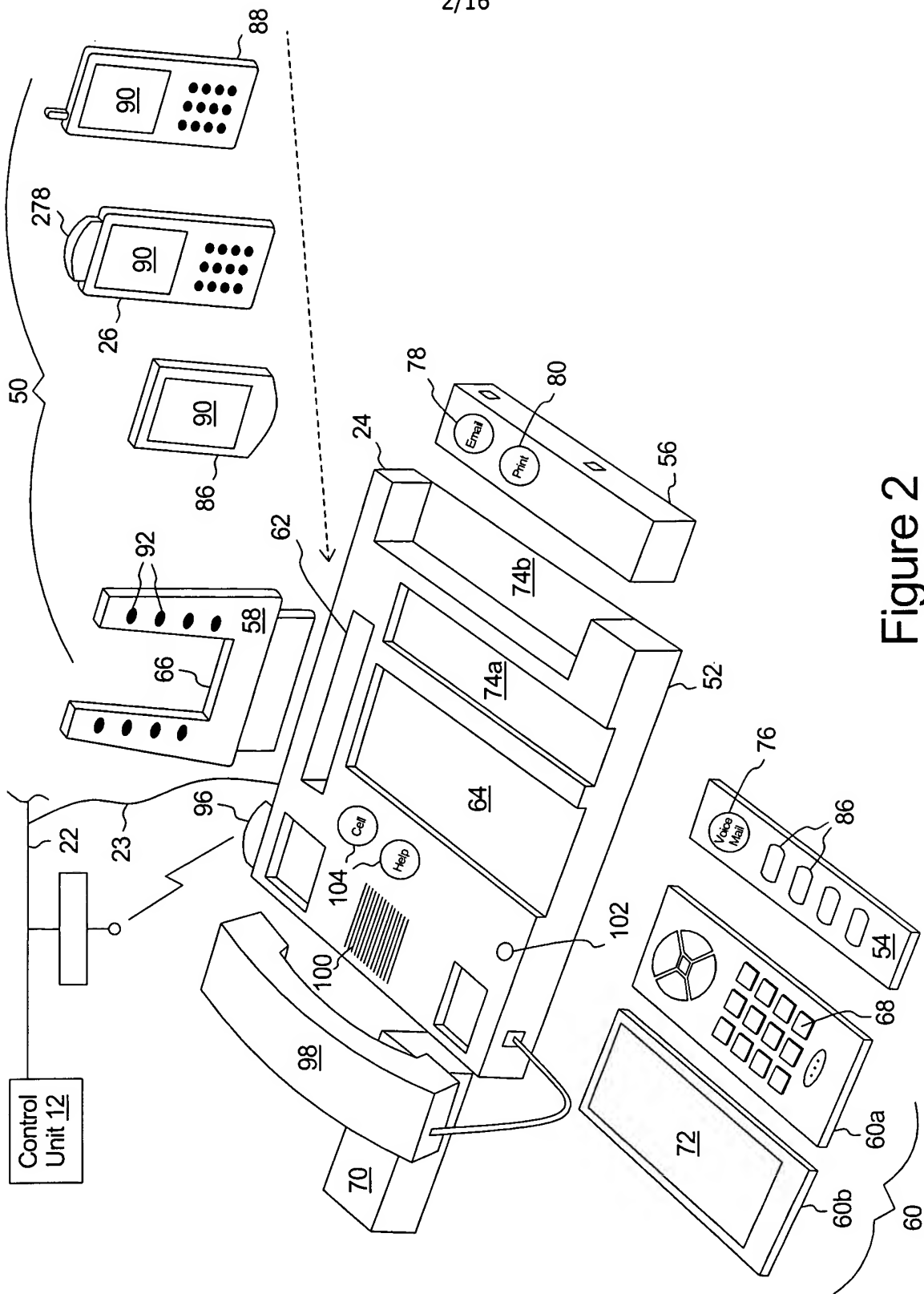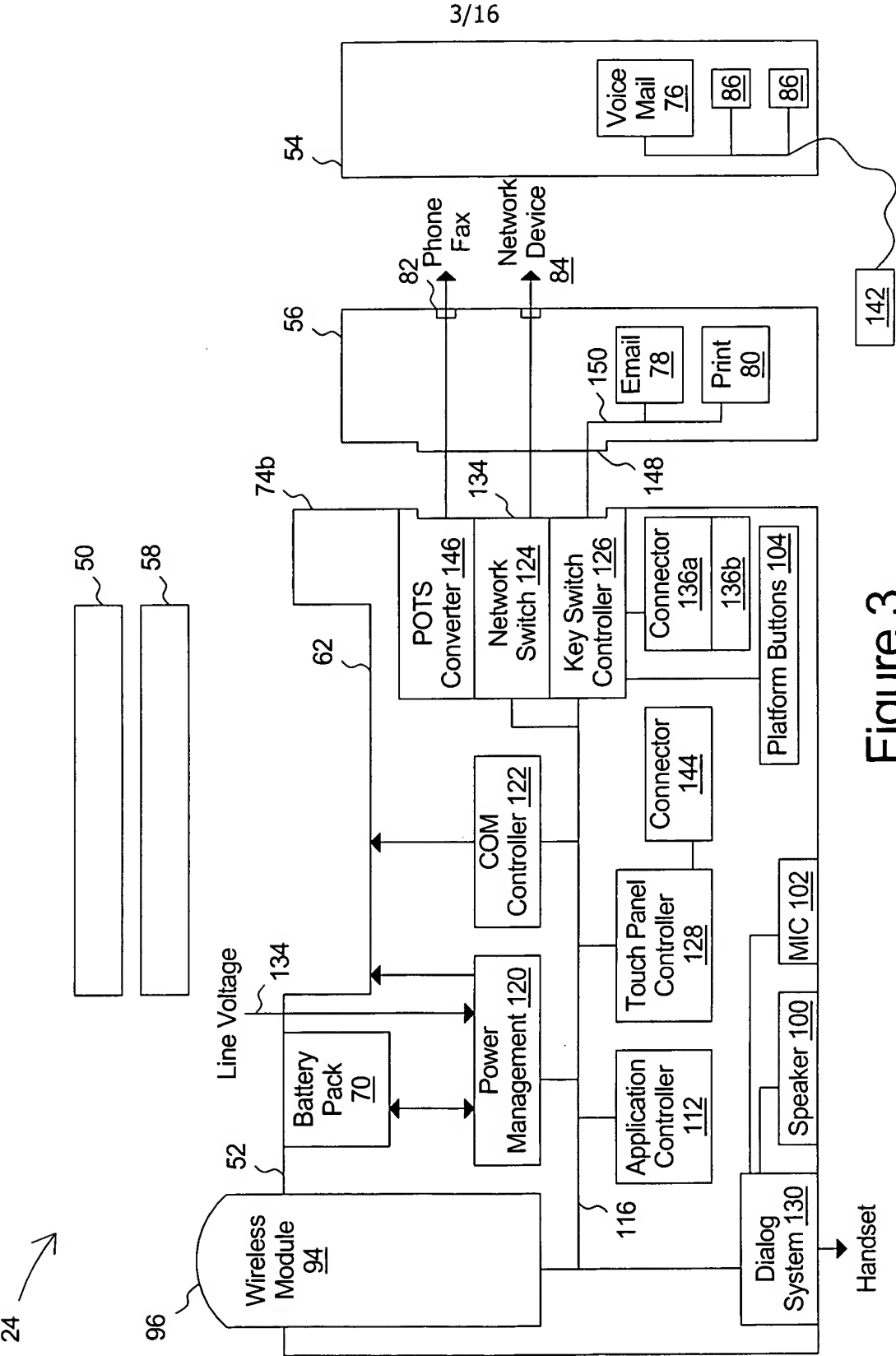|	
57a	Last Name, First Name Company Telephone Number
57b	Last Name, First Name Company Telephone Number
57c	Last Name, First Name Company Telephone Number

80

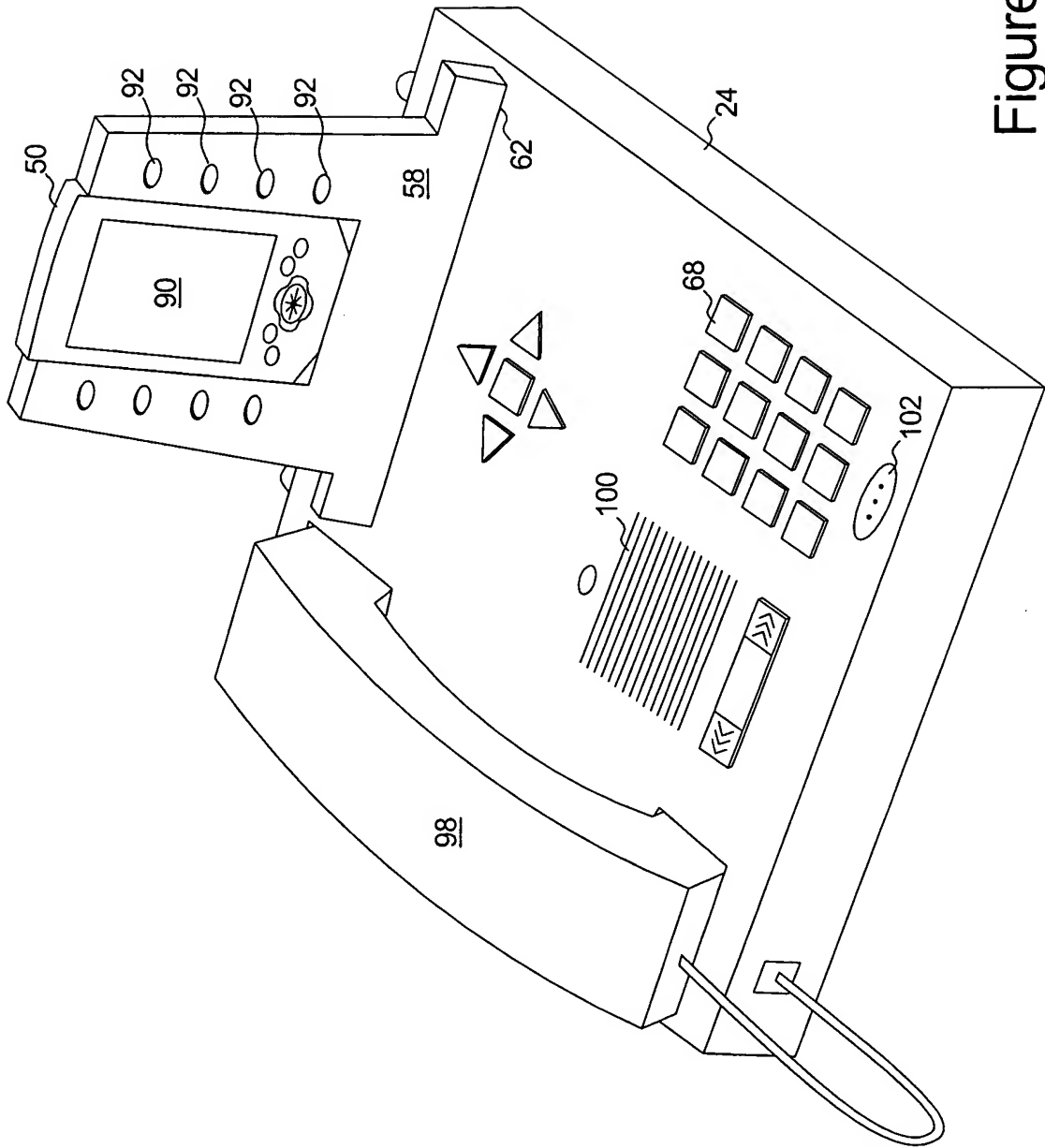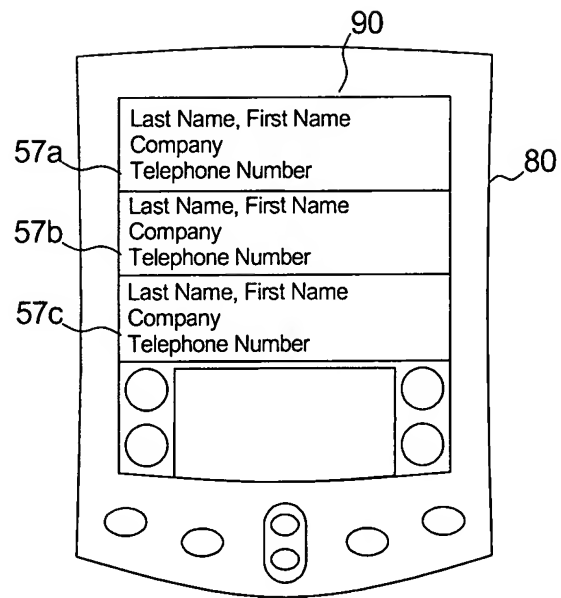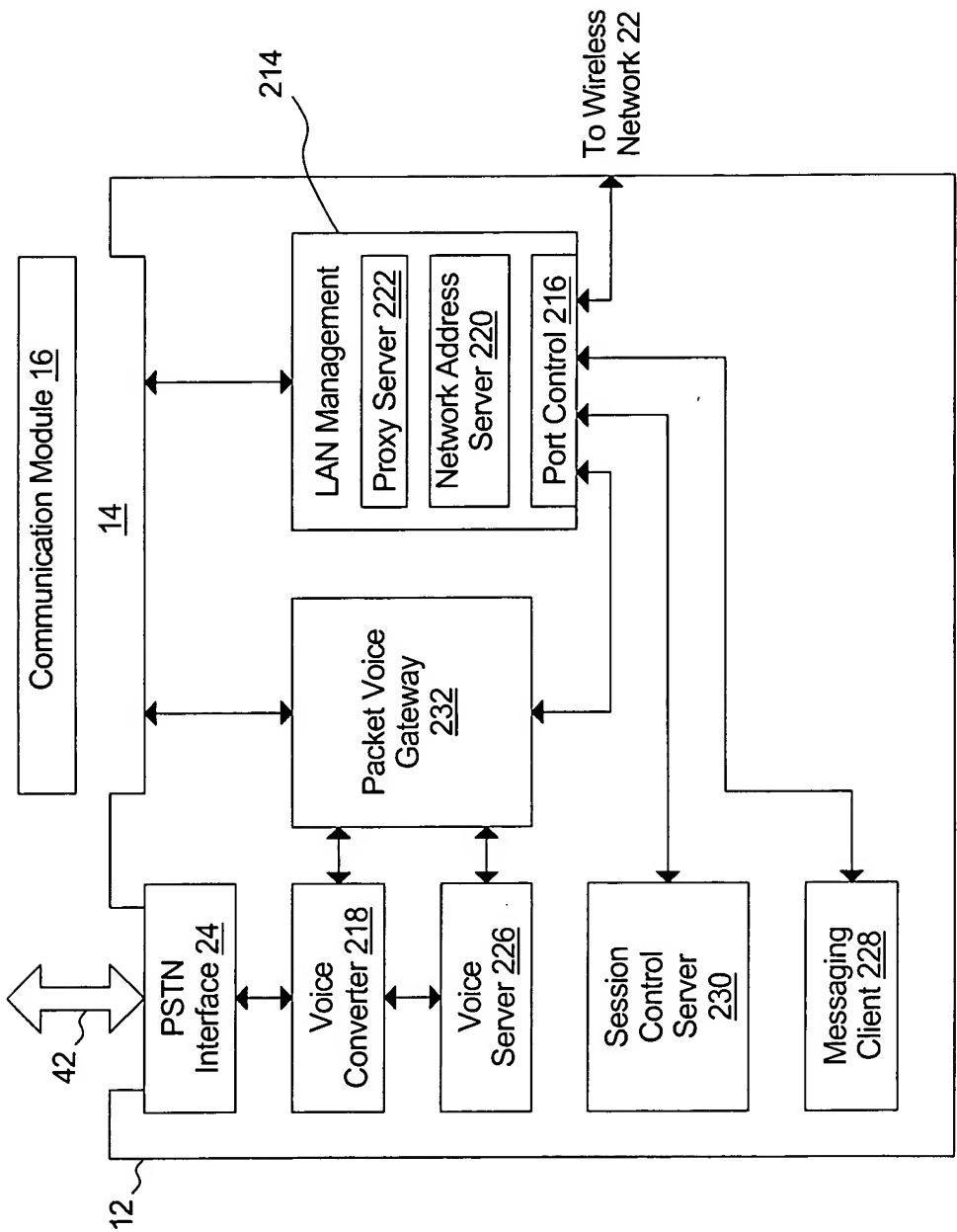Figure 4b

Figure 5

Figure 6

Figure 7

Figure 8

Control Unit 12

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Wireless Module 278

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Module Controller 258

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Dialog App 252

Controller 250

CSS App 256

Drivers 254

Battery Pack 268

Power 270 Management

Display 260 Controller

Touch Panel Display 90

Touch Panel Controller 261

Key Switch Controller 264

Buttons 266

280

Dialog System

Speaker | Microphone

COM Controller

52

Power 120 Management

COM 122
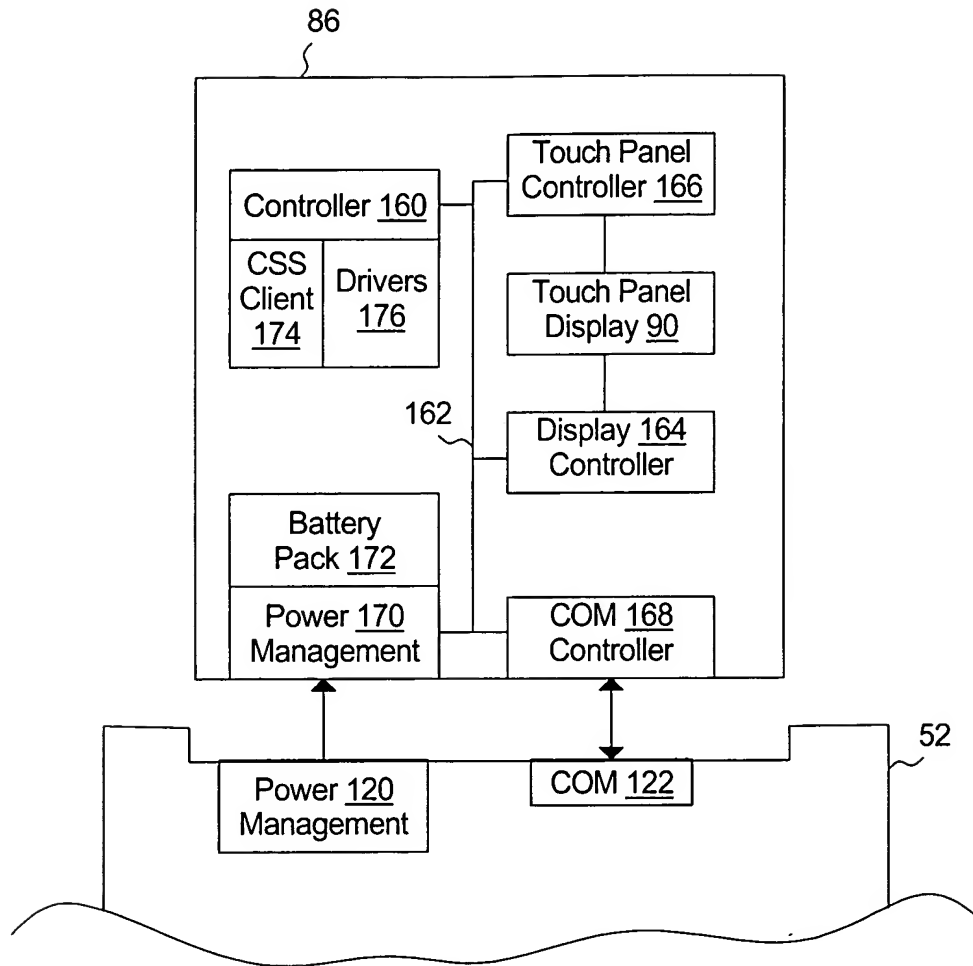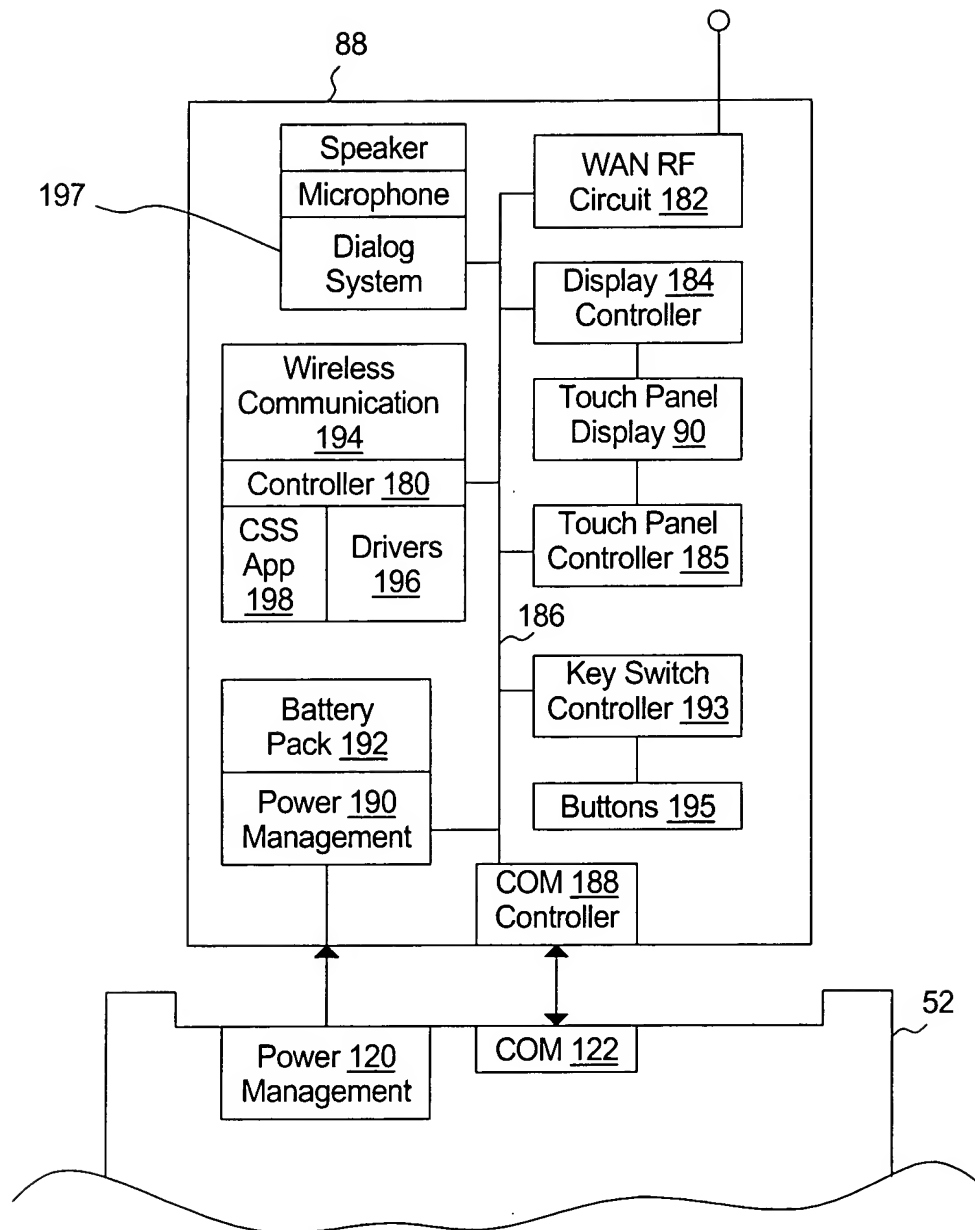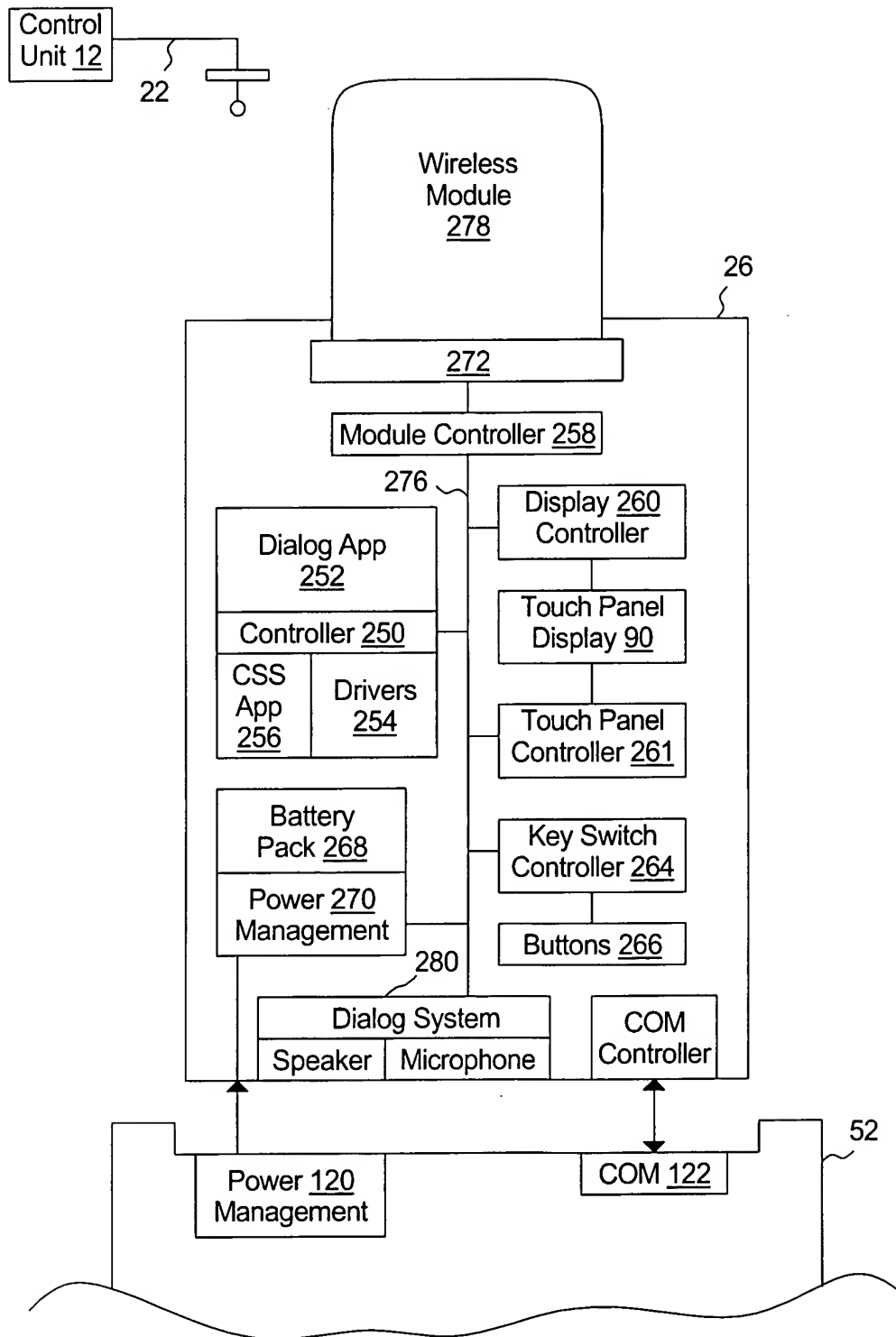
Figure 9

Start Up State - Waiting for Events	
Events	Steps
Open Session Request on Predetermined Port	· Establish New Local Communication Device State Machine · Establish Session · Send Logon Control Scripts · Get CSS Interface Configuration · Provide Main Menu Display Content · Provide Main Menu Layout Control · Go to Main Menu State

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Figure 10a

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Main Menu State - Waiting for Events	
Events	Steps
Menu Selection	· Go To Selected State
Initialize Subscriber Device	· Send ID Extraction Control Scripts · Get Subscriber Device ID · Update Network Location Table · Synchronize Subscriber Contact Directory · Provide Initial Display Content (Main Menu) · Provide Display Layout Control · Go To Subscriber Device Main Menu State
Help Request	· Set Up Audio Session Channel · To Audio Help CCS · Go To Audio Help State

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Figure 10b

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Subscriber Device Main Menu State - Waiting for Events	
Events	Steps
Menu Selection	· Go To Selected State
Help Request	· Provide Help Menu Display Content · Provide Help Menu Display Layout Control · Go To Graphic Help State
Message Request	· Get Messages from Remote System · Sort Messages by Type · Provide Message List Content
Audio Message Request	· Provide Message List Layout Control · Go To Message List State
Directory Request	· Provide Directory Content and Layout Control · Transition to Subscriber Directory State
Subscriber Device Remove	· Go To Main Menu State

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Figure 10c

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Message List State - Waiting for Events	
Events	Steps
Audio Message Select	· Send Audio File to CSS · Provide Processing Script to Output File · Go To Audio Session State
Message Select	· Provide Message Display Content · Provide Message Display Layout Control · Go To Message Display State
Message Print	· Format Message Content for Printer · Send Message File to Printer · Go To Message List State
Help Request	· Provide Help Menu Display Content and Display Layout Control · Go To Graphic Help State
Subscriber Device Remove	· Go To Main Menu State

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Figure 10d

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Subscriber Directory State - Waiting for Events	
Events	Steps
Receive Contact Selection	· Provide Control Script to Setup Audio Session with Contact · Provide Audio Session Display Content and Layout Control · Transition to Audio Session State
Help Request	· Provide Help Menu Display Content and Display Layout Control · Go To Graphic Help State
Subscriber Device Remove	· Go To Main Menu State

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Figure 10e

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Base State - Waiting for Events	
Events	Steps
354 Touch Panel	· Report Touch Panel Event to Controller · Return to Base State
356 Subscriber Interface Control Button	· Report Button Activation to Controller and PVA · Return to Base State
358 Receive Display Content and Layout Control Messages	· Update Display · Return to Base State
360 Receive Processing Script	· Process Script · Return to Base State
362 WAN Telephone Signal	· Go To WAN State
364 Detect Subscriber Device	· Send Initialize Subscriber Message · Return to Base State
350 Receive Messages from Controller Directed to Subscriber Device	· Relay Messages to Subscriber Device
352 Receive Messages from Subscriber Device Directed to Controllers	· Relay Messages to Controller

346 Start Up - Waiting for Events	
Events	Steps
366 Network Connection	· Session Request to Control Unit
368 Receive Logon Script	· Process Logon Script · Provide Interface Configuration · Go To Base State

Figure 11

380

Standby State - Waiting for Events	
Events	Steps
Audio Session Signal from Packet Voice Gateway	· Transition to Call Signalling State · Report State Transition to CSS Application
Subscriber Interface Control (Off Hook)	· Transition to Off Hook State · Report State Transition to CSS Application
Session Setup Event from CSS Application	· Send Call Signalling Message to Gateway · Transition to Call Signalling State · Report Transition to CSS

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Call Signaling State - Waiting for Events	
Events	Steps
On Hook Event	· Return to Standby State · Report State Transition to CSS Application
Termination of Signalling	· Return to Standby State · Report State Transition to CSS Application
Ready for Audio Session	· Transition to Audio Session State · Report State Transition to CSS Application

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Figure 12a

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Off Hook State - Waiting for Events	
Events	Steps
Subscriber Interface Control (Key Pad Activation) from CSS Application	· Generate DTMF Tone
Validation of Number Sequence	· Send Call Signalling Messages to Gateway · Transition to Call Signalling State · Report Transition to CSS Application
Subscriber Interface Control (On Hook)	· Return to Standby State

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Audio Session State - Waiting for Events	
Events	Steps
Termination of Audio Session	· Return to Off Hook State
Subscriber Interface Control (Keypad Activation)	· Generate DTMF Tone
Subscriber Interface Control (On Hook) from CSS Application	· Return to Standby State

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Figure 12b